

Ibandronate, Farnesyl pyrophosphate synthase inhibitor

Catalog	Unit
TBI4630-50MG	50 mg
TBI4630-250MG	250 mg

Product Details

Formal Name: (1-Hydroxy-3-(methylpentylamino)propylidene)bisphosphonic acid, sodium monohydrate

Alternate Names: BM-21.0955

Molecular Formula: C₉H₂₂NNaO₇P₂ • H₂O

Formula Weight: 359.23

CAS Number: 138926-19-9

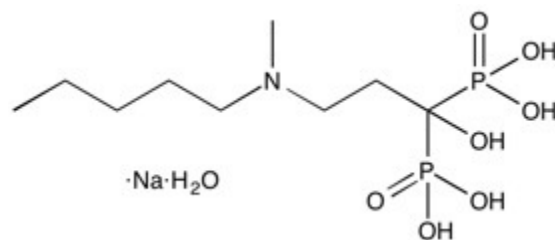
Purity: >98%

Formulation: powder

Solubility: Soluble in water (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Farnesyl pyrophosphate synthase inhibitor

Functions

Clinically useful bisphosphonate for prevention and treatment of osteoporosis, and skeletal fractures in patients with cancer. Potent inhibitor of farnesyl pyrophosphate synthase (IC₅₀ = 20 nM) and strongly binds hydroxyapatite (1/K_d = 2.4 μM), interfering with crystal growth, slowing resorption, and thereby maintaining bone strength.

Application Procedures

First dissolved in water (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.